

EXHIBIT 2

ABBREVIATED CURRICULUM VITAE FOR JONATHAN ALAN ROSENFELD, PH.D. CONSERVATION BIOLOGIST, THE BAY INSTITUTE

REGARDING A PETITION FOR TEMPORARY URGENCY CHANGE FILED BY THE DEPARTMENT OF WATER RESOURCES (DWR) AND THE U.S. BUREAU OF RECLAMATION (USBR) REGARDING TEMPORARY RELAXATION OF THE FEBRUARY DELTA OUTFLOW AND THE SAN JOAQUIN RIVER FLOW OBJECTIVES IN RESPONSE TO CURRENT DRY CONDITIONS

SUBMITTED TO
THE STATE WATER RESOURCES CONTROL BOARD
FEBRUARY 17, 2009

EDUCATION

University of New Mexico PhD, Biology

2001

Dissertation: Conservation of North American freshwater fish species: the micro and macro of speciation and extinction.

University of Michigan MS, Conservation Biology & Environmental Management

1996

Cornell University BS, Natural Resources

1991

RELEVANT EXPERIENCE

Conservation Biologist The Bay Institute of San Francisco

present

Represent a leading environmental non-profit in its efforts to protect and restore the native biological diversity and ecosystem services of the San Francisco Estuary. Advocate in policy forums for integration of ecological principles into management plans for the Estuary in order to protect endangered and economically valuable species such as Chinook salmon, green sturgeon, longfin smelt, and delta smelt. Analyze datasets to uncover ecosystem dynamics and recommend management of vital aquatic resources.

Sole Proprietor Aquatic Restoration Consulting

2005-08

Created and managed a consulting firm focusing on fish, wildlife, and habitat restoration in and around the San Francisco Estuary and its tributaries. Selected projects include:

- lead an expert panel for the *CA Department of Water Resources'* Delta Risk Management Strategy (DRMS) in development of quantitative models and

metrics for assessing impacts to aquatic ecosystems resulting from catastrophic levee collapse

- on behalf of the *Tuolumne River Trust*, review and critique the City of San Francisco's Water System Improvement Program (WSIP)
- develop life-history models for Chinook salmon, steelhead, and longfin smelt for CDFG's Delta Regional Ecosystem Restoration Implementation Plan (DRERIP)
- review *Calfed's* Ecosystem Restoration Program effects on Delta smelt populations
- collaborate on design and content of *Calfed's Ecosystem Restoration Program* conceptual model describing ecological effects of low dissolved oxygen in the Stockton Ship Channel
(http://www.sjrdotmdl.org/concept_model/about.htm)

Director, Scientific Peer-review CBDA Ecosystem Restoration Grant Program
2004-05

Managed peer-review of proposals for a multi-million dollar ecosystem restoration grant program. Collaborated on design of web-based proposal and reviewer management databases. Recruited and assigned scientists to review technical proposals for both, CalFED's ERP and Science programs. Planned, hosted, and managed review panels.

Post-doctoral Researcher Center for Integrated Watershed Science, Univ. California
2002-04

Explored long-term datasets to uncover causes of longfin smelt (*Spirinchus thaleichthys*) population decline in the San Francisco Estuary.

Science-to-Achieve-Results (STAR) Fellow US Environmental Protection Agency
1998-00

Investigated genetic assimilation of a rare desert fish species under the US EPA's graduate fellowship program.

PUBLICATIONS

Rosenfield, J.A. *In review*. Conceptual life-history model for Central Valley Chinook salmon (*Oncorhynchus tshawytscha*) and Central Valley steelhead (*Oncorhynchus mykiss*) in the San Francisco Estuary and its tributaries. CBDA Delta Regional Ecosystem Restoration Implementation Plan, (DRERIP) Sacramento, CA.

Rosenfield, J.A. *In review*. Conceptual life-history model for longfin smelt (*Spirinchus thaleichthys*) in the San Francisco Estuary. CBDA Delta Regional Ecosystem Restoration Implementation Plan, Sacramento, CA.

Rosenfield, J.A. and R. Baxter. 2007. Population dynamics and distribution patterns of longfin smelt in the San Francisco Estuary. *Transactions of the American Fisheries Society* 136:1577-1592.

Rosenfield, J.A., S. Nolasco, S. Lindauer, C. Sandoval, and A. Kodric-Brown. 2004. The role of hybrid vigor in the replacement of Pecos pupfish by its hybrids with sheepshead minnow. *Conservation Biology* 18:1-10.

- Kodric-Brown, A. and J.A. Rosenfield. 2004. Populations of Pecos pupfish (*Cyprinodon pecosensis*) differ in their susceptibility to hybridization with sheepshead minnow (*C. variegatus*). *Behavioural Ecology & Sociobiology* 56: 116-123.
- Rosenfield, J.A. and A. Kodric-Brown. 2003. Sexual selection promotes hybridization between Pecos pupfish, *Cyprinodon pecosensis* and sheepshead minnow, *C. variegatus*. *J. Evol. Biol.* 16:595-606
- Parker, T., R. Knapp, and J.A. Rosenfield. 2002. Social mediation of sexually selected ornamentation and steroid hormone levels in male junglefowl. *Animal Behaviour* 64:291-298.
- Rosenfield, J.A. 2002. Pattern and process in the geographic ranges of freshwater fishes. *Global Ecology and Biogeography* 11:323-332.
- Rosenfield, J.A., T. Todd, and R. Greil. 2000. Molecular evidence of unidirectional hybridization and introgression between pink and chinook salmon of the St. Mary's River, MI. *Transactions of the American Fisheries Society*, 129:670-679.
- Rosenfield, J.A. 1998. Detection of natural hybridization between pink salmon (*Oncorhynchus gorbuscha*) and chinook salmon (*Oncorhynchus tshawytscha*) in the Laurentian Great Lakes using meristic, morphological, and color evidence. *Copeia* 1998:706-714.
- Smith, G.R., J.A. Rosenfield, and J. Porterfield. 1995. Processes of origin and criteria for preservation of fish species. Pages 44-57 in J.L. Nielsen, P. Brouha, and D. Powers, eds. *Evolution and the aquatic ecosystem: Defining unique units in population conservation*. American Fisheries Society special publication #17. Bethesda, MD.

PROFESSIONAL SERVICE

Manuscript referee North American Journal of Fisheries Management, Journal of Heredity, Conservation Biology, Behaviour, Behavioral Ecology, Biological Invasions, Global Ecology & Biogeography, Transactions of the American Fisheries Society, Reviews in Fish Biology & Fisheries, CalFed Ecosystem Restoration Program, CalFed Science Program, California Fish & Game

AFFILIATIONS

American Fisheries Society; Society for Conservation Biology